

SMD General Purpose Rectifier

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CGRA4001 Thru CGRA4007

Glass Passivated Type

Reverse Voltage: 50 - 1000 Volts

Forward Current: 1.0 Amp



Features

Ideal for surface mount applications

Easy pick and place

Plastic package has Underwriters Lab. flammability classification 94V-0

Built-in strain relief

High surge current capability

Mechanical data

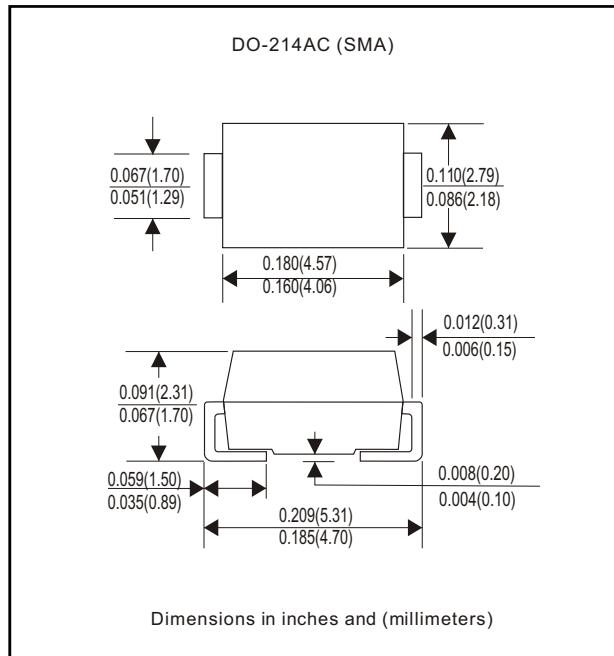
Case: JEDEC DO-214AC molded plastic

Terminals: solderable per MIL-STD-750, method 2026

Polarity: Color band denotes cathode end

Mounting position: Any

Approx. Weight: 0.063 gram



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CGR4001	CGR4002	CGR4003	CGR4004	CGR4005	CGR4006	CGR4007	Unit
Max. Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Max. DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Max. RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Peak Surge Forward Current 8.3ms single halfsine-wave superimposed on rateload (JEDEC method)	I _{FSM}					30			A
Max. Average Forward Current	I _o					1.0			A
Max. Instantaneous Forward Current at 1.0 A	V _F					1.1			V
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=100°C	I _R				5	50			μA
Max. Thermal Resistance (Note 1)	R _{θJA}			75		85			°C/W
Operating Junction Temperature	T _j			-55 to +150					°C
Storage Temperature	T _{STG}			-55 to +150					°C

Note 1: Thermal resistance from junction to ambient.

Rating and Characteristic Curves (CGRA4001 Thru CGRA4007)

Fig. 1 - Reverse Characteristics

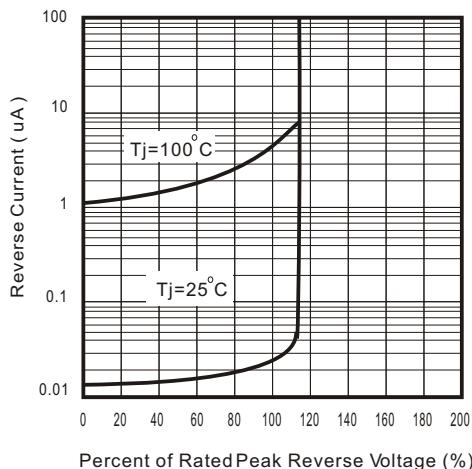


Fig.2 - Forward Characteristics

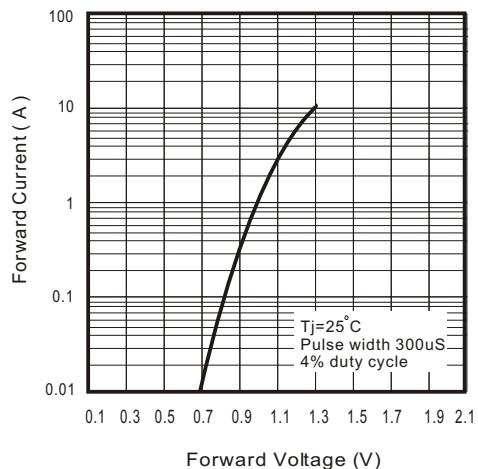


Fig. 3 - Junction Capacitance

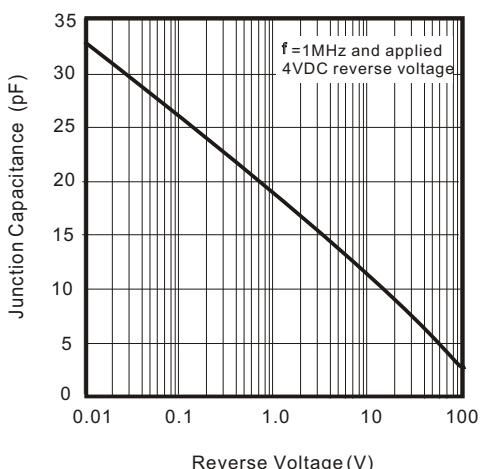


Fig. 4 - Current Derating Curve

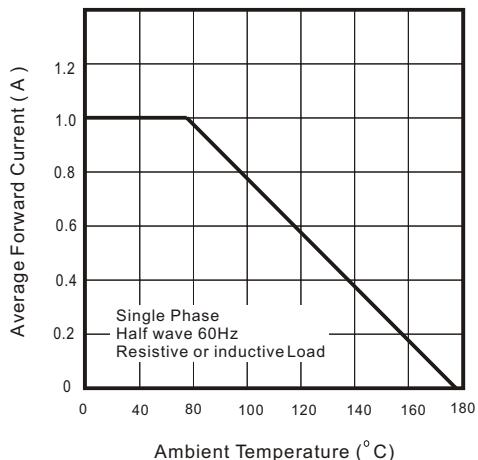


Fig. 5 - Non Repetitive Forward Surge Current

